

United States Department of Agriculture ALLEGHENY FOREST EXPERIMENT STATION*

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VOLUME TABLES FOR LOBLOLLY PINE (Pinus taeda L.) 7. 153

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The following volume tables for loblolly pine were computed by the Allegheny Station primarily for use in analyzing the Eastern Shore permanent sample plot records for a study of growth and development of old field stands. Recent requests for information concerning loblolly pine on the Delmarva Peninsula makes it desirable to present these tables in technical note form. Tree measurements were furnished by the Maryland State Department of Forestry.

LOBLOLLY PINE - MARYLAND (Pinus taeda L.)

Entire stem - Less bark - Cubic feet

D.B.H.	.:				T	otal he	ight -	Feet				:Basis
o.b.		 20	:	30	: 40	: 50	: 60	: 70	: 80	: 90	: 100	No.of
Inches	S:	 			V	olume -	Cubic	Feet			-	:Trees
2 3 4 5 6 7 8 9 10 11 2 13 14 15 6 17 8 19 20 21 22 3 24 25	0.10 .2 <u>1</u> .43 .67	0.19 .46 .85 1.35 1.97 2.63 3.4 4.2 5.2		0.28 .69 1.27 2.00 2.86 3.88 5.0 6.3 7.8 9.4 11.0 12.8 14.8	0.37 .93 1.66 2.60 3.75 5.05 6.7 8.4 10.3 12.2 14.6 17.1 19.8 22.6 25.5 28.5 32.0 35.8 39.8	2.03 3.18 4.60 6.3 8.2 10.2 12.6 15.1 18.0 21.0 24.1 27.5 31.0 35.0 39.0 44.0 48.5 53 64 68 75	5.45 7.5 9.8 12.1 15.1 121.4 25.0 28.8 33.0 41.5 47.0 52.0 58.0 65 70 76 82 89	6.40 8.8 11.3 14.0 17.6 21.0 24.8 29.0 33.3 38.0 43.0 61.0 68.0 74 81 88 95 102	10.0 12.8 16.0 19.9 24.0 28.0 32.5 57.8 43.0 48.5 54.2 62.0 68.0 76.0 84 92 98 106 115	11.1 14.3 18.0 22.2 26.6 31.2 36.5 42.0 48.0 54.0 62.0 69.0 77.0 85.0 94 101 109 119 130	29.5 34.8 41.0 47.0 53.5 61.0 68.0 77.0 86.0 95.0 103 112 121 133 144	4 14 11 15 22 24 25 27 26 28 19 32 21 29 20 19 12 6 5 6 2 2
Basis	3	 14		24	47	52	59	111	57	3		370

Basis - 370 Trees, measured by Maryland State Dept. of Forestry on Eastern Shore. Aggregate deviation, table 0.03 percent low; average percentage deviation 7.58. Stump 1.0 ft. high, measured as a cylinder, volume measured by planimeter; table read from alinement chart constructed from logarithmic multiple regression equation by G. Luther Schnur in 1932.

^{*}In cooperation with the University of Pennsylvania.



LOBLOLLY PINE - MARYLAND (Pinus taeda L.)

Merchantable stem - With bark - Cubic feet (To a 3-inch top o.b.)

D.B.H.: o.b.: Inches	20	: 30	: 40	Total : 50 Volum	height: 60 e - Cul		: 80	: 90	: 100	:Basis :No.of :Trees
34567891011213456178920122345	0.19 •45 •91 1.47 2.09 2.77 3.60 4.48	0.19 .62 1.37 2.27 3.28 4.45 9.65 7.00 8.5 10.0 11.4 13.1 14.7	0.19 .77 1.79 3.05 4.51 6.05 7.70 9.60 11.5 13.6 15.7 18.0 20.3 22.5 25.0 27.0 29.5 32.5	0.19 .94 2.23 3.90 5.70 7.65 9.80 12.30 14.7 17.14 20.0 22.8 25.7 28.5 32.0 35.0 38.0 42.4 46.0 50 54 57 61	1.10 2.69 4.70 6.90 9.30 11.80 14.90 17.8 21.0 27.5 31.0 35.0 38.5 43.0 47.0 52.0 57.0	5.50 8.00 10.80 13.85 17.45 21.0 24.4 28.0 32.4 37.0 41.5 46.0 51.0 56.0 70 75 78 83	6.25 9.28 12.50 16.00 20.00 23.9 28.0 32.7 37.4 43.0 48.0 53.5 59.0 63.5 69.0 74.0 79 814 88 93	14.10 18.15 22.75 27.0 32.0 37.0 42.5 49.0 55.0 66.0 71.0 76.0 82.0 88 93 98 104	15.80 20.25 25.25 30.0 36.0 41.5 48.0 55.0 61.0 67.0 72.6 78.0 84.0 90.0 97 102 110	1 11 15 22 24 25 27 26 28 19 32 21 29 20 18 13 6 5 6 2 2
Basis	8	16	47	52	59	111	57	3		353

Basis - 353 Trees, measured by Maryland State Dept. of Forestry on Eastern Shore. Aggregate deviation, table 0.85 percent low; average percentage deviation 9.10. Stump 1.0 ft. high, top diameter outside bark 3.0 inches, volume measured by planimeter; table read from alinement chart constructed from logarithmic multiple regression equation by G. Luther Schnur in 1933.

LOBLOLLY PINE - MARYLAND (Pinus taeda L.)

Board feet - International rule - 1/8" kerf (To a 5-inch top i.b.)

Basis - 332 trees, measured by Maryland State Dept. of Forestry on Eastern Shore.

Aggregate deviation, table 0.126 percent low; average percentage deviation 13.2. Stump 1.0 ft. high; top diameter inside bark 5.0 inches; scaled in 16 ft. log lengths with trimming allowance of 0.3 ft. Small trees and additional top sections scaled as fractions of 16-ft. 5-inch logs. Table read from alinement chart constructed from logarithmic multiple regression equation by G. Luther Schnur in 1933.